

# Product data sheet

Specifications



## body for changeover switch - 3-pole - 30° - 20 A - screw mounting

K2F013UL

 **Discontinued on:** Jan 29, 2021

 **Discontinued**

### Main

|                                             |                               |
|---------------------------------------------|-------------------------------|
| Range Of Product                            | Harmony K                     |
| Product Or Component Type                   | Cam switch body               |
| Component Name                              | K2                            |
| [Ith] Conventional Free Air Thermal Current | 20 A                          |
| Sub-Assembly Composition                    | Contact blocks + fixing plate |
| Cam Switch Function                         | Changeover switch             |
| Off Position                                | Without Off position          |
| Poles Description                           | 3P                            |
| Switching Positions                         | Left: 30°<br>Right: 30°       |
| Mounting Location                           | Front                         |
| Fixing Mode                                 | Multifixing                   |
| Bezel Material                              | Plastic                       |

### Complementary

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switching Angle                              | 30 °                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [Ui] Rated Insulation Voltage                | 690 V (pollution degree 3) conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [Ithe] Conventional Enclosed Thermal Current | 16 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rated Operational Power In W                 | 1300 W AC-3, 230 V 1 phase conforming to IEC 947-3<br>14000 W AC-21, 400 V 3 phases conforming to IEC 947-3<br>17000 W AC-21, 550...600 V 3 phases conforming to IEC 947-3<br>2200 W AC-3, 230 V 3 phases conforming to IEC 947-3<br>2200 W AC-3, 400 V 1 phase conforming to IEC 947-3<br>4000 W AC-23A, 230 V 3 phases conforming to IEC 947-3<br>4000 W AC-3, 400 V 3 phases conforming to IEC 947-3<br>4000 W AC-3, 500 V 3 phases conforming to IEC 947-3<br>4000 W AC-3, 690 V 3 phases conforming to IEC 947-3<br>5500 W AC-23A, 400 V 3 phases conforming to IEC 947-3<br>5500 W AC-23A, 500 V 3 phases conforming to IEC 947-3<br>5500 W AC-23A, 690 V 3 phases conforming to IEC 947-3<br>8000 W AC-21, 230 V 3 phases conforming to IEC 947-3 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ie] Rated Operational Current Ac      | 8 A at 400 V AC-3 3 phases conforming to IEC 947-3<br>10.8 A at 400 V AC-23A 3 phases conforming to IEC 947-3<br>14.6 A at 230 V AC-23A 3 phases conforming to IEC 947-3<br>4.7 A at 690 V AC-3 3 phases conforming to IEC 947-3<br>6.4 A at 690 V AC-23A 3 phases conforming to IEC 947-3<br>6.5 A at 500 V AC-3 3 phases conforming to IEC 947-3<br>8.3 A at 230 V AC-3 3 phases conforming to IEC 947-3<br>8.9 A at 500 V AC-23A 3 phases conforming to IEC 947-3<br>2 A at 500 V AC-15 conforming to IEC 947-5-1<br>3 A at 400 V AC-15 conforming to IEC 947-5-1<br>4 A at 230 V AC-15 conforming to IEC 947-5-1 |
| Electrical Durability                  | 200000 cycles AC-23<br>200000 cycles AC-3<br>600000 cycles AC-15<br>600000 cycles AC-21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Maximum Operating Rate                 | 2.5 cyc/mn AC-21<br>2.5 cyc/mn AC-23<br>2.5 cyc/mn AC-3<br>8.333 cyc/mn AC-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Short-Circuit Current                  | 10000 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Short-Circuit Protection               | 20 A cartridge fuse, type gG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Uimp] Rated Impulse Withstand Voltage | 4 kV in isolating function<br>6 kV conforming to IEC 947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Contact Operation                      | Slow-break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Positive Opening                       | With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Electrical Connection                  | Captive screw clamp terminals flexible, clamping capacity: 2 x 1.5 mm <sup>2</sup><br>Captive screw clamp terminals solid, clamping capacity: 1 x 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mechanical Durability                  | 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Net Weight                             | 0.156 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Environment

|                                       |                                                                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-3 for power circuit<br>EN/IEC 60947-5-1 for control circuit<br>CENELEC EN 50013                                  |
| Product Certifications                | CSA 240 V 1 hp 1 phase<br>CSA 240 V 3 hp 3 phases 2 -pole(s)<br>UL 240 V 1 hp 3 phases<br>UL 240 V 0.33 hp 1 phase 2 -pole(s) |
| Protective Treatment                  | TC                                                                                                                            |
| Ambient Air Temperature For Operation | -25...55 °C                                                                                                                   |
| Ambient Air Temperature For Storage   | -40...70 °C                                                                                                                   |
| Shock Resistance                      | 30 gn conforming to IEC 68-2-27                                                                                               |
| Vibration Resistance                  | 5 gn conforming to IEC 68-2-6 (f = 10...150 Hz)                                                                               |
| Overvoltage Category                  | Class II conforming to IEC 536<br>Class II conforming to NF C 20-030                                                          |

## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type Of Package 1       | PCE    |
| Number Of Units In Package 1 | 1      |
| Package 1 Height             | 11 cm  |
| Package 1 Width              | 6.5 cm |
| Package 1 Length             | 6.5 cm |
| Package 1 Weight             | 156 g  |

# Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|